

Of Numbers, Forces and Cells

7th Annual NYU Developmental Genetics Symposium

- 9:00-9:15 **Welcome and Introduction: Stephen Small (NYU)**
- 9:15-9:45 **Peter Devreotes** (Johns Hopkins)
The cell's compass: how cells move and know where to move
- 9:45-10:15 **Lance A Davidson** (Swanson School of Engineering)
Mechanical feedback in morphogenesis
- 10:15-10:45 **Jeremy Nance** (NYU School of Medicine)
Preparing cells for gastrulation: contact-mediated polarization mediated by E-cadherin
- 10:45-11:15 **COFFEE BREAK**
- 11:15-11:45 **Viji Subramanian** (NYU Biology)
Meiotic chromosomes choreograph recombination
- 11:45-12:30 **John Condeelis** (Albert Einstein)
Keynote: Understanding how tumors spread and how to stop them
- 12:30-2:00 **LUNCH**
- 2:00-2:30 **Jeffrey J Fredberg** (Harvard)
Collective migration and cell jamming
- 2:30-3:00 **Daniel Needleman** (Harvard)
Biophysics of spindle assembly
- 3:00-3:30 **Ana Pombo** (Max Delbrück Center, Berlin)
Hierarchical organization of chromosome folding during mammalian cell differentiation
- 3:30-4:00 **COFFEE BREAK**
- 4:00-4:30 **Alex Mogilner** (NYU Courant Institute and Biology)
Modeling mitotic spindle assembly and maintenance
- 4:30-5:15 **Donald E Ingber** (Harvard)
Keynote: Mechanobiology and Developmental Control: From Organ Formation to Organ Engineering
- 5:30 **RECEPTION**

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NYU Center for Genomics & Systems Biology
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Register online at: nyu.edu/as/biology/dg2014

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